

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [2670] 30M Propagation  
Message-ID: <199508210403.XAA17364@chuck.dallas.sgi.com>

Gang,

I told you one week and one week I think it has been.

At least for this fight you guys and girls didn't pay \$1,500 US for a front row seat. Not one of them one minute and the contender is down or the manager jumps into the ring and disqualification rule takes over.

No way!! The big guy from TX is just 10, count 'em 10 states away from a clean sweep.

At 0200Z, August 20th, after telling Phyllis that he was going to just turn on the lil radio for a second to check on 30M, since the kid was in for the weekend from college and quality time was the number one item on the dance card for the weekend, the big guy wanted to see what was going on the 30M band.

Well, the Heath GC-1000 was sitting there rock solid "Hi Spec" locked onto 10.0000000MHz from WWV in Boulder CO, which means that 10MHz, a.k.a. 30M, should be in great shape. Listen starting at 10.101 and up to 10.125 and hear some stuff but band not too crowded.

Get on 10.119 and call CQ and get Omaha NE. Not a new state. Start tuning down and hear a weak one at 10.110. OK, this sounds promising. He signs WH6, hmm wonder if he is one of them new fangled California callsigns, what with so many calls issued they are looking for some strange combinations to keep up with the number of new hams.

Bring up the QRZ CDROM database on the workstation sitting on the desk and sure enough -- this guy is right out in the middle of the Pacific Ocean on a rock. Wow. Wonder if one little watt is going to do it. Fire off his call and mine. A moment's pause and he sends QRZ? I resend his call one time and mine three times. Yep, he has good receiver 'cuz he got it right.

So to make a short story short, it was just as exciting

as working KH6 on 40M with 0.95W during the winter time. Just about the time the band is going out seems the best time to get long distances to the west. Gotta get up early and try for the east or over the pole.

The other tough one on the list to get is KL7, but I also need that one on 40M for WAS 0.95mW. Just a little more time.

One thing that I did note that I had not seen previously that I recall was that around 10.120MHz there was a sound like you would get putting a seashell to the ear on the ocean shore. Broadband white noise around 2KHz or so wide. Must be coming from the west a great distance away. Wonder if anyone else has heard it. Ooops. There it is again at 10.118MHz. Very strong now. Digital signal that starts and stops after about 5 to 10 seconds.

Heard my friend Lee in RI the other night chasing DX down on the low end but I didn't bother him. :- ) I'll just have to keep plugging away though I've only got to the 28th to finish this "fight".

Hope Bob W03B is doing OK. The band has done pretty well and I think that 40 states in 2.5 months without really sitting at the rig day and night is pretty respectable. Not bragging mind you, just think that 30M is during the summer months what 40M is during the winter months. Under 5W can do it. Just a little patience and a little time will do it. Even if you don't hear signals, give it a try. I'd say from 11am local to about 4pm local is a bad time and after 11:30pm to 7am is also a bad time, but don't count it out.

We have finally gotten to the point in ham radio where in the USofA, the region that a call signed is issued in doesn't mean much. We've got a high probability that the station call sign is not in the states that we think he/she should be in. With the new vanity call signs the problem (well, I consider it a problem but what do I know) is going to get worse. Just a fact of life. Looks like QRZ!CDROM and Buckmaster have a lifetime subscriber. :- )

Someone sent me email a week ago asking that I come back down to 40M. Will do so later in the week after 30M closes. I want to get back to 40M but QRN is so bad here, but not too bad on 30M even with thunderboomers in area.

Watch for more info on fox hunt this week. It's really

getting close to that time of the year. :-)

dit dit es gl to all

--

Chuck Adams (K5FO CP-60) adams@sgi.com  
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: [2675] 5 watt amp - QRPP to QRP  
Message-ID: <Pine.OSF.3.90.950821100739.16076A-100000@govonca2>

OH please, don't accuse me of wimping out - I've had a good bit of fun since last fall when the NC 40 got on the air, and later on at .95 watt with the NE 30-40 and so on.... but....

A couple, a few of us here (me, to start with) are wondering what, if any, are the available things to make an 5 watt amp we could stick on the end of a NorCal 40/40A/ Sierra, SWL/NE xx-40, OHR smaller stuff - the sort of things that are at best giving .95 to 2.5 watts out at best. Some of those rigs have great qsk, and that is certainly of interest to preserve the qsk feature.

I ask this for at least two reasons. One, the club season with attendant meetings is coming up fast, and I would like to present a few nice building project ideas at the September start up/plenary meeting.

Second, and I KNOW there are those who agree with me so don't be shy - a lot of the time these days with the sunspot cycle, coronal holes and just plain "I want to work radio but 1.5 watts won't, but 5 watts just might do it" reasons, I would really like to see a 5 watt amp on a few of these rigs. Maybe it for the benefit of the op on the other end too, who just might answer a call or cq if it was at 5 watts.

Anyhow, for the club and for a bit of ease in the shack I'd like to hear if anyone has any favourite circuits (published source, please), kits and so on that would do this. If a kit, let me know whether its Kanga, 624 Kits, a board from FAR Circuits or wherever.

No gain antenna here, and the wire antenna does work nicely, but there are a few houses, trees and many things many of us contend with that do interfere with peanut and walnut size signals, but we still want to have qrp fun building and using the rigs.

YOUR RECOMMENDATIONS----- please.

Send them to ME by e-mail, and when I have a good collection of ideas,

sources I will send it to the qrp list ONCE so that the whole list is not sent n suggestions multiplied by the number of qrp-l subscribers, and it will be at once source, rather than scattered throughout a couple weeks of qrp mailings an archive days.

72

Brien Pepperdine  
VE3VAW

(Please move that "Worlds Tallest Free Standing Structure" - its in my qrp-DX path) Toronto

pepperb@gov.on.ca

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: aa7qy@primenet.com (Roger Hightower)  
Subject: [2703] Cutting Postal Costs for Club Newsletters  
Message-ID: <199508212137.0AA11803@mailhost.primenet.com>

Sri for the bandwidth here, but I don't know who all on the list does the newsletters.

I prepare and mail a monthly combined newsletter for 8 ham radio clubs in the Phoenix, AZ area with an average mailing of 750 copies (10 pages). I have a bulk mail permit, which reduces the cost significantly. The permit costs me \$75.00 a year plus the monthly amount based on total pieces; an average of \$145.00/mo. If I had to stamp each one, the cost would be \$240 a month, so the savings more than pays for the annual permit charge.

Something to consider for those with large mailing lists.

72, de Roger, AA7QY  
aa7qy@primenet.com

NorCal #1099

NEQRP #383

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Peter Kozup <PKOZUP@KENTVM.KENT.EDU>  
Subject: [2682] CW and FISTS  
Message-ID: <199508211637.MAA145939@nss1.CC.Lehigh.EDU>

Reading the mail on this listserv, which, incidentally, is the most interesting

of all that I subscribe to (I work in a library, and while some of the stuff I read on those lists is interesting, a lot isn't), I just had to say something regarding the CW discussion that's been going on. CW and QRP fit hand in hand, and while there are many QRP SSBers and packeteers, the nature of CW seems to mesh nicely with QRP work. I think that if the CW requirement goes, so will ham radio, at least in the way I've known it over the past 35 years. Newcomers to the hobby just won't bother to learn code, and it will gradually, and finally quickly just disappear. I also believe that there is a great danger of this happening -- we already have ORACLE in ZL-land bringing a motion to the next WARC Conference to get rid of the CW requirement. Unfortunately, too many CW ops are unprepared or unwilling to fight for their mode, and while we can all sit around wearing our CW Forever buttons, in the final analysis, when new hams no longer have to learn code, it will be gone (ok, ok, maybe there will be a few newcomers trying to have CW contacts in between all the digital clatter that would exist in a post-CW world, but it will, essentially be gone). This is the reason that I joined the FISTS International CW Club. FISTS has, as its reason for being, the use and promotion of morse on the ham bands. That's it! There are no hidden agendas or operating requirements. Whether you're a great CW op or just learning, the only thing you need, in order to join, is a love of morse and a desire to see it promoted and continue to be used on the ham bands. I've never been flamed on the internet, I don't post much to the librarians' lists, and they're pretty good at flaming, but I suspect that someone out there will tell me that this posting has little to do with QRP. Well, I'm pretty new in the use of QRP, you'll find me listed in the past couple of SS tests and in Field Day over the past couple of years, as a QRP op, but I'm still pretty new. Its pretty obvious, though, that QRP without CW will require equipment and technology that those of us with five thumbs on each hand will have a hard time constructing. But, I'm about to select my first QRP transceiver kit to build, and it will be a CW only kit -- I'm just not skillful enough with a soldering gun to let me try for something more difficult. So, you ask, whats your point? I just feel that QRPers and CW ops need to work together to ensure the continuance of our loves, because they tie in so closely together. We need to actively encourage people to use CW, and to make sure that the bands are full of both CW and QRP ops. The only organization I know of that is actively promoting the use of CW for ALL hams (requiring no skill or proficiency for membership) is FISTS. If you know of others, please let me know, and perhaps I'll join too. If you would like more info on FISTS please send me a quick note, and I'll get some out to you as soon as I can. Hpe CU QRP on CW sn, 73, Pete K80UA

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: QRPADAMS@aol.com  
Subject: [2680] Field Day Style Antenna  
Message-ID: <950821115244\_59546882@emout04.mail.aol.com>

I have been using "dual phased sloping dipoles" with my 20M MFJ SSB rig while portable and they work great. The article in hints and kinks from the early

80's says they are an adaptation of the 8JK (maybe J8K) beam antenna. Does anyone know where I can get my hands on the original info for the 8JK beam?

Also, I am looking for the most gain at a low angle and directivity that I can get with a wire antenna using only one high support. The band is 20M and the support is 45 feet. I have plenty of land to play with but only one decent tree. (You would swear I was Iowa!)

Contenders include the dual slopers and the bi-delta.

72, Mark

PS- QRP SSB is a blast. The ops at the other end are floored when I hit'em with "running 5 watts into a delta loop here in Western NY".

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: gcouger@jsun.agen.okstate.edu (Gordon Couger)  
Subject: [2701] FS/TRADE TBY 28-80 MHz xmit-reciver  
Message-ID: <9508212014.AA10140@jsun.agen.okstate.edu>

I traded for a TBY last weekend. After looking it over I decided it was in too good a shape to rebuild into a solid state rig. I would like to pass it on to some one who wants to use it in its original state. I will take the best offer I get. I have an offer of \$30.00.

A description is below. It is missing some screws from the case.

Thanks  
Gordon

Gordon Couger - 624 Cheyenne, Stillwater, OK 74075  
gcouger@master.ceat.okstate.edu 405-624-2855 evenings  
I do not speak for my employer

Navy type CRI 43007 Transmitter - receiver 28 to 80 Mhz and a type CLG 20144 4 volt vibrator and battery charger unit. This is a low power unit the total B+ wattage is 5.5 watts. It is AM and CW with a regenerative receiver. It is complete except for the 4 V battery. The inside is very clean and unmodified. The outside is dirty with a slight bend in one corner. The calibration book is badly wrinkled but perfectly legible. On the bottom at the power connector there is some damage to the metal. There is some loss of paint on the corners. For a 50 year old radio it is in excellent shape.

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: gcouger@jsun.agen.okstate.edu (Gordon Couger)  
Subject: [2687] Is this group still alive?  
Message-ID: <9508211837.AA09343@jsun.agen.okstate.edu>

Gordon AB5DG

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Glen\_Reid-C11882@email.mot.com  
Subject: [2705] Marking Dials  
Message-ID: <M1652593.003.onbb2.1.950821224738Z.CC-MAIL\*/OU=HPLMPS/OU=ILBB/  
PRMD=MOT/ADMD=MOT/C=US/@MHS>

One admittedly low tech but very elegant way of marking dials is to use a knob with a calibrated skirt. Usually 0-10 or 0-100. They come in many sizes.

The only mark required is a reticule mark on the panel above the knob. Frequency readout can be done from a calibration table or graph.

Glen Reid K5HGB  
Austin

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: markem@primenet.com (Mark Monninger)  
Subject: [2662] Measuring power  
Message-ID: <199508202358.QAA08213@mailhost.primenet.com>

Greetings all...

Forgive me if this has been covered recently but how do you measure power using an oscilloscope? I know you measure the voltage and crank it thru an equation but I;m not sure of the equation. Also, is it peak volts or peak-to-peak volts? I know the basic equation is  $P=E^2/R$  but that doesn't seem to work right so I suspect there are some other terms in there somewhere. I tried to look it up in the Handbook but it's not really clear. Hey...I'm a software guy, not an EE.

I'm trying to measure the power out on my QRP rigs and calibrate a wattmeter. I'm feeding the rig into a dummy load (50 ohm) and measuring the voltage. The numbers don't seem to be making sense.

Any help will be greatly appreciated.

Many thanks...

Mark AA7TA

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: rac@usa.net  
Subject: [2677] Measuring power  
Message-ID: <199508211453.IAA09599@mail.usa.net>

Mark asked

>Forgive me if this has been covered recently but how do you measure  
power  
>using an oscilloscope? I know you measure the voltage and crank it  
thru an  
>equation but I;m not sure of the equation. Also, is it peak volts  
or  
>peak-to-peak volts? I know the basic equation is  $P=E^2/R$  but that  
doesn't

The 'scope indicates peak-to-peak voltage. The power formula above  
uses rms voltage. Convert the p-p scope reading by dividing it by  
2.828 to obtain the rms value. This only works on sine waves but of  
course the output of your transmitter is a sine wave so it will work  
very well. Also, for good accuracy, be sure the scope has frequency  
response at least twice the frequency you are measuring and your  
probe is matched properly to the scope.

-73-

-Lee WA3FIY-

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Dave Williamson aa4zx/8 <dcwill@popd.ix.netcom.com>  
Subject: [2704] Measuring power with a scope, simplified  
Message-ID: <199508212135.0AA19735@ix4.ix.netcom.com>

At 08:09 PM 8/20/95 EDT, you wrote:

>Forgive me if this has been covered recently but how do you measure power  
>using an oscilloscope? I know you measure the voltage and crank it thru an



<snip>

>

>Many thanks...

>

>Mark AA7TA

Mark - when doing some QRPppppppp work with Paul, AA4XX, I had to re-member how to do that myself... The equation for power with \_\_RMS\_\_ voltage is, you're right, voltage squared divided by resistance. And, yeah, you can divide the peak-to-peak by 2.828 (twice the square root of two) and get RMS, and then plug and chug, but \_\_IF\_\_ you're using a 50-ohm load, you can save time and trouble by using the simplified formula of (peak-to-peak voltage squared) divided by 400.....

$E(p-p)^2 / 400.$

For any random load (we're talking resistive here, okay?), use peak-to-peak voltage squared over eight times the resistance....

$E(p-p)^2 / (8 * R)$

Try it, you'll like it (though I have to re-derive it every danged time - can't seem to remember it <g>).

Probably goes without saying that you'll put your output to your 50-ohm dummy load with the scope across said load, measure the voltage, calculate the power, and switch to your antenna.

dave aa4zx/8  
near elkins wv

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [2691] Memberships  
Message-ID: <199508211856.NAA18814@chuck.dallas.sgi.com>

Gang,

I do not know of any club that sends out a notice to inform the membership of upcoming gloom and doom and the loss of later issues. :-)

If a club such as NorCal sent out cards (20 cents USofA domestic) as reminders, they would immediately be out over \$250 from the kitty (TX talk for treasury) which could be put to better use doing club type things

like new kits etc.

I have the same problem as everyone else in that I need to pay close attention to expiration dates on everything. QST, NorCal, NE, Hambrew, and the others. Mark your calendar or if financially possible pay in two or three year increments. Clubs don't and probably will never have life memberships available like the ARRL. I was too stupid in the '60s to go ahead and pay the \$75 for life membership. :-) Life memberships are too much administrative overhead for small clubs.

So when each of us goes home tonight, go to the bookshelf, files, or where you keep back issues and look at the mailing label(s) and see if you are about to become part of the silent subscribers.

Thanks for reminding us Michael, KG8H.

dit dit

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Chuck Adams (K5FO CP-60) adams@sgi.com  
Box 181150, Dallas, TX 75218-8150

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: ddonald@vikings.onecomm.com (Dave Donaldson)  
Subject: [2672] More on Ramsey

Since the topic of Ramsey came up I will share my experience. I purchased the 30 meter receiver a few months ago. It went together well and there were no problems with the manual. I turned it on and it worked ,kinda. Every time my I brought my hand near it the oscillator shifted in frequency. After shielding most of the board with brass I have to say that I am happy with it. It is stable and a sensitivity of .3 microvolt. I view the Ramsey kits not as the end but as a means to create some nice equipment.

72.999999999998 (I use a pentium)  
Dave, WB7DRU

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Jim Stafford-W4QO <w4qo@america.net>  
Subject: [2696] Neophyte  
Message-ID: <Pine.SV4.3.91.950821152846.6312B-100000@atl11.america.net>

624 kits in South Carolina has a neophyte kit per their list of available kits. I have not tried it. FYI only.

73/72/jim/w4qo

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: pelt@vt.edu (Randy Pelt)  
Subject: [2690] NW8020  
Message-ID: <199508211850.0AA151997@nss1.CC.Lehigh.EDU>

Since I don't know the contractual arrangements Roy Gregson has with Dan's Small Parts, maybe I'm out of line suggesting this, but heck it won't be the first time I've been out of line :-). Why can't we get Roy to work out a deal with somebody to make up the boards for the 8020. The parts for this little rig you can get from Mouser, etc. If you need the step by step instructions, maybe a purchase from Roy???

I've got two 8020's, one on 40 and one on 80. I think the receiver is better than most of the kits I see discussed on this list and the transmitter will put out up to 7 watts. And it is EASY to build and make work!

It's a shame this little rig has disappeared with Danny.

\*\*\*\*\*

*Ranson J. Pelt	*
*Internal Audit Manager	*
*Virginia Tech 0328	*
*Blacksburg, VA 24061	*
*(540) 231-9475 FAX (540) 231-4681	*
*	*
*QST de nz4i (soon to be w4wyt again)	Semper Fi *
*****	

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: adam@philadelphia.libertynet.org (Adam O'Donnell)  
Subject: [2694] OHR SCAF  
Message-ID: <9508211909.AA05939@philadelphia.libertynet.org>

Does anyone know how much the OHR SCAF costs? With the case?  
I just got the Ramsey catalog today. I believe that they said that their

SCAF filter had a continuously variable bandwidth and costs about 35 without the case.

73

--

Adam O'Donnell, N3RCS  
Amsat: N3RCS@AMSAT.ORG  
Internet: ADAM@LIBERTYNET.ORG

"I want to know how God created this world. I am not interested in this or that phenomenon. I want to know His thoughts, the rest are details."

-- Albert Einstein

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: "Michael T. Weaver, RN Ph.D." <NURS036@UABDPO.DPO.UAB.EDU>  
Subject: [2688] QRP Club Dues  
Message-ID: <199508211845.0AA161474@nss1.CC.Lehigh.EDU>

I've noticed that my memberships in several QRP clubs (NORCAL, NEQRP, GQRP) are due to expire in the next month.

Since I haven't yet gone through a full year of membership, and don't want to miss a newsletter issue, I was wondering if renewal notices are sent out by these organizations (either separate or in the end-of-year newsletter) to remind members to re-up, or if you just send in your renewal, unsolicited, before expiration?

TIA & 72,

Michael  
KG8H

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Michael T. Weaver, RN Ph.D.      Internet: nurs036@uabdpo.dpo.uab.edu  
U. of Alabama at Birmingham      Bitnet  : nurs036@uabdpo  
School of Nursing                Radio   : kg8h  
1701 University Blvd.            QRP     : ARCI: 8576;  G-QRP: 8616  
Birmingham, AL 35294-1210        : NORCAL: 933;  QRP-NE: NE366  
Phone: (205) 934-6913  
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From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: LVE1@inel.gov (Larry East)  
Subject: [2689] QRP+ SSB and Other Stuff (long)  
Message-ID: <9508211845.AA02878@garnet.inel.gov>

First, some thoughts on the problem of low SSB power output from the QRP-PLUS.  
I believe there are three issues to address:

1. The effect of the Plus's low microphone input impedance;
2. The effect of the Plus's ALC circuit on SSB output; and finally
3. The problem of trying to measure SSB power output.

The microphone input impedance is determined by the 500 Ohm gain pot and is low enough to "load" HI-Z microphones (crystal, ceramic, etc.) to the point that there may not be enough output to properly drive the rig. The Plus is designed to work with electret mics which can work into a low impedance. Low-Z dynamic mics might also work, but I haven't tried one. To use a hi-Z mic, you might try putting a simple emitter (or drain) follower in the microphone. Using a PNP transistor (or P channel FET), you could probably make use of the "bias" voltage intended for an electret microphone as the power source, with the 4.7K series resistor in the Plus acting as the emitter (or drain) resistor. I haven't tried that either, but if you do and it works, remember where you heard it first!

Now for the ALC; this is intended, as stated in the manual, to insure that the final FET remains in its linear range during SSB operation by limiting the peak output power to a preset value. Unfortunately, the ALC level is not adjustable, and normal component tolerances probably result in SSB output varying by ~10% or more from rig to rig. In my case, using an electret mic, I get a about 5W PEP output on some bands, and about 4W on others. Probably a useful mod would be to make the ALC level adjustable (and, perhaps, frequency compensated?). Using a 'scope and two-tone oscillator, one could then set it to give the maximum power output commensurate with linear operation.

I would NOT suggest disabling the ALC altogether; not only does it keep you from driving the final too hard, but it also reduces the effects of mic gain, mic position and speech level on the audio output; in a sense, it is a simple speech processor. I saw a post where the comment was made "...there is no ALC on CW, so why have it on SSB?" The answer is that we don't care about linear operation on CW -- remember the days of Class C amplifiers? (Whoops! showing my age...)

I believe that some of the "low output problems" may be due to measuring SSB output on a normal Wattmeter, which essentially measures "average power". Lots of folks expect such meters to indicate the "peak power" in voice peaks, but it don't work that way. For 5W PEP (Peak Envelope Power) output, a "normal"

Wattmeter will probably show something between 1 and 2W, depending on characteristics of the meter and the speaker's voice. If you have an Oak Hills WM-1 (or similar) Wattmeter, it can be fairly easily modified to indicate PEP; see the December '94 issue of QRPp and January '95 issue of QRP Quarterly for two variations of the mod (the one in the Quarterly is probably the best -- not bragging since I wrote 'em both!).

Concerning my recent "Tale of Woe" about losing the final and receiver mixer twice in my QRP+: got my unit back from Index, and it appears that the second time around only the mixer was blown. I received lots of advice and suggestions as a result of that post, but only three other Plus owners reported losing a mixer and one reported losing a final. Maybe the problem is not widespread, or maybe you other owners have just been lucky! There were several suggestions that switching transients due to the relays may be a factor, but that is only speculation at the moment. For those of you who aren't aware, there are FOUR relays that are activated in the process of switching from receive to transmit; one switches the antenna from xmit to receive, one switches the direction of signals thru a mixer, and two switch in the appropriate xmitter output network. The relays are encapsulated "DIP" type and can't be heard unless you stick your ear next to the cabinet. They don't switch during keying, so that is something at least...

One of my winter projects will be to dig into my Plus and see what I can do about "bullet proofing" the receiver front end, as well as making the ALC adjustable and adding some overvoltage protection for the output FET amplifier. Watch for the results in the QRP Quarterly...

72, Larry W1HUE/7

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Bing WB2SXN <ADMINH10%CLVM.BITNET@CUNYVM.CUNY.EDU>  
Subject: [2692] Ramsey kits  
Message-ID: <"omnigate.c.410:21.07.95.19.06.55"@clarkson.edu>

At a recent local hamfest 4 other hams and I bought 30 meter tx kits for \$8 and \$10 ( one of us was a better haggler hi) 3 of them are on the air with a great sounding 1 watt signal that required absolutely no tuning ( none on the board) - the board was good quality - vxo control from 10106 to 10111 - crystal included - some of the components were surplus but they all worked - what else can you say !!! don't know about the rest of their kits but would pay the full price for the 30 mtr tx if I had to - 73

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995

From: af389@lafn.org (David Shalita)  
Subject: [2673] Schottky Diode Spice model  
Message-ID: <199508211407.AA28520@lafn.org>

VERY recently, a SPICE MODEL for a Schottky Diode, was posted to this QRP-L Digest. I cannot be more specific, but do need the info. The model info was provided as part of a discussion of "diode-capacitance"

This is quite embarrassing.  
I carefully saved the info to harddisk, and then lost it thru my error.

If possible, please repost the model info again.

73 and thanks,  
Dave, W6MIK

--  
af389@lafn.org  
Dave Shalita,

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Steven Wilson <randyw@crl.com>  
Subject: [2679] The Amateur's Code - Or lack there of..  
Message-ID: <Pine.SUN.3.91.950821081427.9680A-100000@crl12.crl.com>

What happen to "The Amateur's Code" ? He is considerate, friendly, etc.

I had an experience this past weekend that makes me believe it needs to be returned or at least given consideration. I recently obtained a low power solid state rig. It had QSK, side tone, etc. It checked out ok on SSB. Now for the CW test. Not wanting to pull my electronic keyer from my main rig I plugged in my BUG. Loaded up to about 20 watts and called a few CQ's. No response. I then zeroed a signal that was 599+ and gave a quick call and stood by with pencil in hand.

I immediately got a response "SCRAM LID" no call letters. I knew I had not used the bug in a year, but my fist could not be that bad. I was listening to my self on the side tone keyer and it sounds very nice. So I called again. I then received a stream of obscene and vile code with the F word being very prominent. Again no call letters, but certainly one knows if he is hearing the same 599+ signal. I then check on the computer to see where is this guy located. I saw that he was a

local ham only about 15 miles away and about 70 years old. Been a ham for several years. OK so maybe his mind has gone. I did not know him but maybe he has some beef with me that I did not know about. So went down the band and called several CQ's, got a QRZ and a couple of QRL's, but no contacts.

Later in the day decided to try again. Again another nice 599 signal calling CQ. Quickly zeroed the station and gave him a short call. He came back about 800 hz lower, no call letters, but a lot of comments about my character. He also had numerous uses of the F word coupled with LID. He sure knew a lot of dirty words. Again computer check. He was in the next state, an adult, and had been licensed for about 3 years. Nothing was said about my signal, fist or quality of the signal. I called him a couple of times sine he like to call CQ inbetween calling out various obscene names. He would never use his call or mine when using filth, just when he immediately called CQ again.

By now my fist was sounding very good via the side tone keyer, the QSK worked great and I had it set for char spacing. Antenna was matched, counter showed i was exactly on frequency, power meter read up scale. But no contacts. It happens that the rig has two keying transistors, one for the side tone and one for the RF. The RF one had failed so my de sounded line "N", and my call sounded like M0T.

Not one station ever said anything about my signal, fist, tone. The comments were all character related. One would think that if you heard a station answering your CQ that the comments would have been "OM your keying sounds funny", "your signal is breaking up", "Sri can not copy your code OM", OM something is wrong with your signal" or "Gee OM you do not have any dots".

IF YOU heard a strange sounding signal answering your CQ what would you do ? Both hams with the filth comments had nice fists (abt 15 wpm), clean signals, but their heads were not screwed on stright.

Mayve I was a lid for not listening to my off the air signal first. But everything sure looked ok and today one has to be careful about turning on a solid state receiver next to a transmitter if you do not want to blow the front end.

This happened on 40 CW, not 75 mtr SSB or the 20 mtr SSB flame frequency.

de stan ak0b  
e-mail via randyw@crl.com

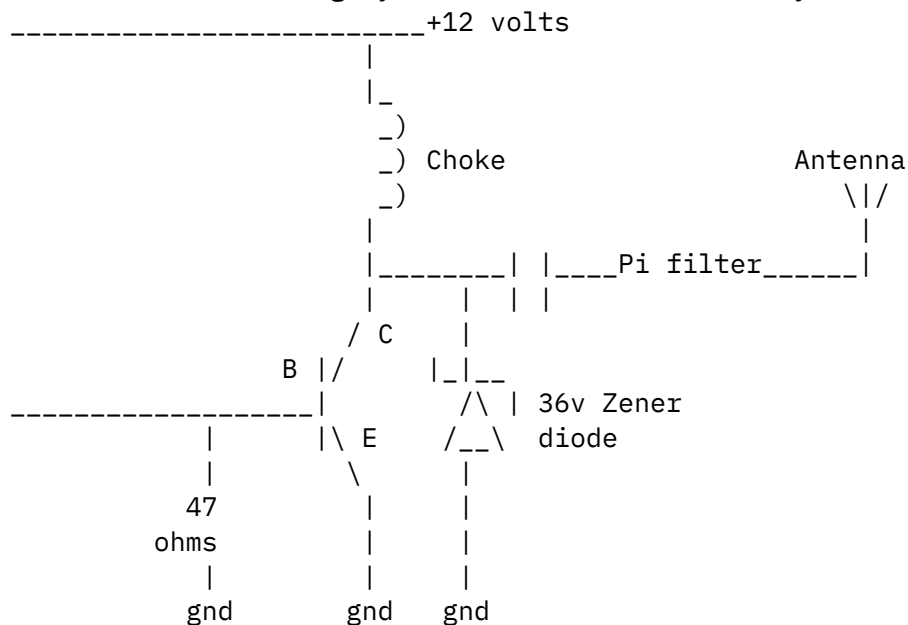


From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>  
Subject: [2693] towards a full (5W) gallon  
Message-ID: <1995Aug21.150551-0400@[130.113.234.7]>

Brien wants a little more power. In the true ham fashion, (like hotting up Dad's sedan) lets see if we can't coax a little more power out of an existing rig. Here's a trick that might get you some more watt(s) out of the final stage of a CW class C transmitter. It involves replacing ONE part, the choke that feeds DC power to the PA transistor.

Caveat emptor applies here...have some spare finals hanging around before you try this one folks.

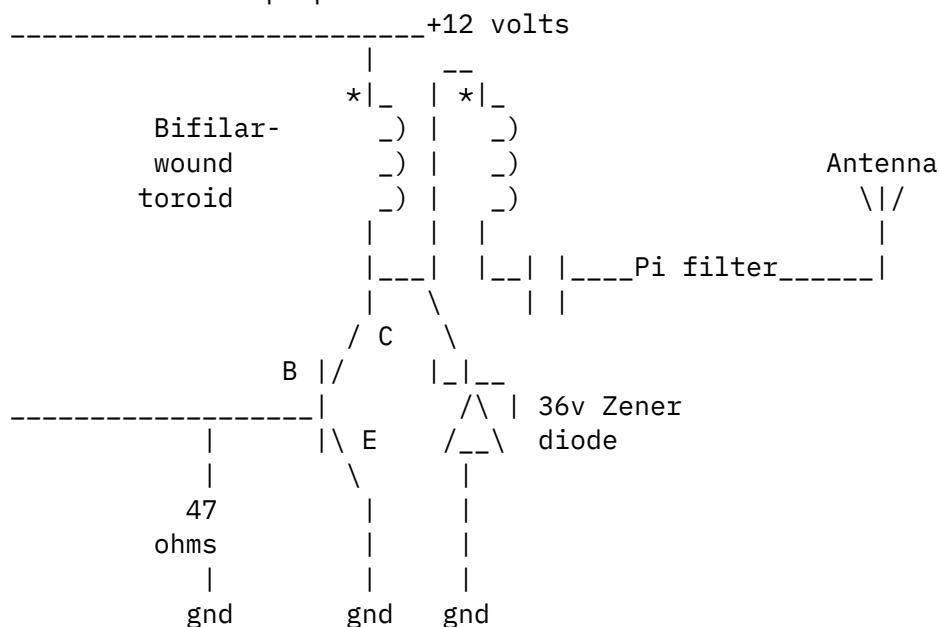
Most finals nowadays look something like this:  
The Pi filter is roughly 50 ohms at either end (symetrical).



The transistor collector voltage sits @ 12v DC and swings up and down from a +ve peak of about +24v to lower peak of 0v. Now if you replace the choke with a bifilar wound ferrite transformer, the collector still swings the same, but now the pi filter sees double the voltage.

The transistor has to work harder, because when it looks out toward the antenna, it sees  $1/4$  the impedance that it did before. So this trick only works if you can drive the transistor harder into the base. And, the final has to be able to dissipate more heat too. The most you'll get is four

times the power that you had before...likely less because the driver will poop out.



The two windings of the transformer have to be phased correctly (take note of the asterixi).

Seems to me that for 40M, you want about 15uh of inductance; in any case, the inductance of one winding should be about the same as the choke that gets replaced. A FT50-43 or even FT37-43 ferrite would be OK...I'm guessing @ # of turns...10?

Didn't Derry used a circuit like this (with a FET) in his 5W SSB power booster described in QRPP a few issues ago?

Glen Leinweber VE3DNL leinwebe@mcmail.mcmaster.ca

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995

From: NYOUNG@nova.wright.edu

Subject: [2663] tower rats & the grammer (sic) of the obsessed

Message-ID: <01HUB48J13HY9379U0@nova.wright.edu>

I remember someone telling me once not to use used tower. I think I know why now. But it was an interesting weekend, what with visitors and all. So here's the deal:

I was looking at the waffles lying on my plate when Larry showed up. Larry is my rock-climbing buddy who is used to hanging upside down and backwards from 200 ft rock faces. He'd volunteered (after I asked him) to help me put up the 45 ft of tower that I'd gotten from a ham down the street. One of those moving out gifts. Like a sentence fragment.

We got 35 ft of tower up before Larry said "You have about 6 inches of play here. By the time we put the top on it'll be a foot or more. Let's put on the guys. Or will that mess up the math?"

I figure if a guy who hangs by his toes from the side of a mountain is concerned about play in a tower, it's time to reconsider the entire set up. So Larry returned to Earth and we looked at the options. Then we put up the guys and decided that this was enough for the moment. Larry repacked his gear and left. I spent the rest of the day hanging the 40m dipole from the yardarm that Larry had put on near the top. And I tried to figure out how I was gonna take up the slack in the guys. They were really lose.

By the time I was done, I had a headache, was dehydrated (temp was nearly 100-degree heat index) and could have cared less if they'd come and hauled me off for regrooving. Two ibuprophens, two aceta-minephens and dinner and I was feeling much better.

The next day I fiddled with wires and got the tools out of the lawn so the 20-year-old could mow the lawn. Then Dave Holler (N1RGN) came over with his HOwes 40m radio and we sat in the "Stinking Pit of Radio Jive" and "Estacion Memorial de Evaristo Carriego" (no relation) and got his radio running. I'd forgotten how much stuff was involved in DCrx's, even after my year long experiences....

So now all I gotta do is get some more pipe in the grounds, put some more stuffs on the wires and figure out how I want the cabling to lie when I question the next witness. That'll be the easy part. Like when you can't remember how to spell stationery as in paper or stationary as in stuck in the ground. Kinda like the difference between grammar (as prescriptive rules in language use) and grammer (as the difference between digital perfection and parrotty checks... which I can never get cashed. They always want a pitcher ID.)

What a weekend. I hope Larry comes back. I still wanna put up the rotator and all that crap. Maybe I can get Dave to send him a letter on legal stationary. Or I can go to his house and gravel.

73

Nils

WB8IJN &c

"What? You're the king just because some aquatic tart hands you a sword out of a lake?"

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995

From: JessQRP@aol.com  
Subject: [2664] Re: 30M posting  
Message-ID: <950820203254\_79178692@emout04.mail.aol.com>

Just a thought. This is all for fun and profit (just kidding). I find Chuck's postings on 30 meter propagation a lot more interesting than QRP + mic orders and Dayton weather reports (hi). The nature of QRP is relaxed and informal. As this forum should be. No matter what you do, there is always going to be some bandwidth devoted to things that may not be of interest to all. Let's all lightne up and get back to what this is all about, having fun!

Best  
Jess

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: prvalko <prvalko@Oakland.edu>  
Subject: [2666] Re: 30M posting  
Message-ID: <Pine.OSF.3.91.950820210615.7704D-100000@saturn.acs.oakland.edu>

On Sun, 20 Aug 1995 JessQRP@aol.com wrote:

> As this forum should be. No matter what you do, there is always going to be  
> some bandwidth devoted to things that may not be of interest to all.  
> Let's all lightne up and get back to what this is all about, having fun!

As an infrequent reader of the newsgroup alt.tasteless... those fellows and fellowettes observe a protocol where if they reply to a message just to say something like, "Read the FAQ, you %\$^!#!" they ALSO add an "OBLIGATORY TASTELESS (ObT)" paragraph. Perhaps we should begin an "OBLIGATORY QRP (ObQRP)" to all our non-QRP (Dayton WX, Death of CW, etc) posts? I'll start...

ObQRP : Friday night I got on 2M SSB about 12:30am (Saturday morning), called CQ and had a fellow in Ripley (Believe It or Not), NY answer me. We chatted for a bit and commented on how nice the band was across the lake at that time, we then both dropped down to about 2W and carried on the QSO. Conditions were so good we tried the same thing on 432MHz and had another 2X-QRP contact.

From qrp-l@lehigh.edu Mon Aug 21 19:37:00 1995  
From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)  
Subject: [2684] Re: 5 watt amp - QRPP to QRP

Message-ID: <199508211738.PAA18781@public.compusult.nf.ca>

Brien,

If we can just get Roy Gregson to get his redesigned NW8020 5 WATT QSK transceiver out there then I think we will have a competitively priced 5 watt QRP rig (if you remember the NW8020 disappeared with Dan's Small Parts in Montana, Wyoming (and those other rustler states - wasn't it one of these States were Billy the Kid and Jesse James hid out??)

Anyway I agree with you - in my experience 5 watts makes a BIG difference in my getting a QSO going vs 1-2 watts. I don't know why but I have better chances at this power (no I don't want to extend my exponential thinking beyond this).

73/72 Bob VO1DRB/WA6ERB

PS: I am not as wild about an outboard QRO 5 watt linear - it was not the design intent for the rigs you mentioned. The closest I know of in kits (North America) is the OHR Spirit series (top notch rcvr and 5 watts), the Gary Breed A&A rig (not QSK) and non-kit the MFJ 90xx's. Hands in the UK should have a new 5W QSK rig out soon which Bill at Kanga US will carry. But all of these rigs are above the \$80 price range that the NW8020 was selling at.

>YOUR RECOMMENDATIONS----- please.

>Brien Pepperdine

>VE3VAW

>(Please move that "Worlds Tallest Free Standing Structure" - its in my  
>qrp-DX path) Toronto

Brien - you mean to say that your petition to the MP's in Ontario denied your request to use the CN Tower as a place to tie your end fed random wire antenna???

Bob Gobrick	VO1DRB/WA6ERB/VE2DRB	Newfoundland, Canada
QRPer	Galore - QRP	ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP
Internet:	bgobrick@terra.nl.net.nf.ca	
	rgobrick@public.compusult.nf.ca	
Compuserve:	70466.1405@compuserve.com	

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995

From: scalawag@ids.net

Subject: [2685] Re: 5 watt amp - QRPP to QRP  
Message-ID: <199508211752.NAA126127@nss1.CC.Lehigh.EDU>

Brien and the gang,

Can't help you with the amp, but wish you good luck  
from others in the group.

As to the wimping out...not to worry, you did your  
QRPP initiation and saw what it is like way down  
in the grass. Milliwatting is not for everyone  
(not me) cuz we "need" a bit better QSO rate.

I have remained at 5 watts (4.8w on my calibrated  
meter just to satisfy myself that I am under 5w)  
all summer for the 30m "test". Have had a lot  
of success with a good geographical QTH (the local  
QTH is the pits to put it mildly), & a low 30m delta loop.

If you are looking for a few more QSOs and a bit of DX,  
as it sounds from your posting, 5 watts may well make the  
difference. It's still a challenge and will remain  
satisfying.

Just another voice.

73 Lee W5TEH

Vernon L. Rosson  
e-mail  
LeeW5TEH@aol.com  
or  
SCALAWAG@ids.net

\If ignorance is bliss why aren't more people happy?

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: dgf@netcom.com (David Feldman)  
Subject: [2697] Re: 5 watt amp - QRPP to QRP  
Message-ID: <199508211902.MAA06341@netcom14.netcom.com>

>PS: I am not as wild about an outboard QRO 5 watt linear - it was not the  
>design intent for the rigs you mentioned. The closest I know of in kits

There is another option - perhaps could one of the existing QRPP rigs be

modified so that it's output power tracks the DC supply voltage? Perhaps a small 12->5 VDC converter could be used to boost the 12VDC supply voltage to 17V, allowing for 50% increase in DC supply voltage - might give us 3-4dB gain while preserving the full break-in features.

73 Dave WB0GAZ dgf@netcom.com

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: LVE1@inel.gov (Larry East)  
Subject: [2674] RE: Digital Stuff  
Message-ID: <9508211424.AA17572@garnet.inel.gov>

A couple of days ago Ve#DNL wrote:

>...  
> And here's where digital radio rubs us the wrong way...  
>there's no art to it. The ionosphere is just another box in  
>a schematic plan: signals go in one side and come out the other.  
>Add op-amps, digital filters to clean up the mess, some error  
>correction to take care of the drop-outs and re-construct the  
>data. Nils, you admit to loving CW - how many packeteers can  
>say the same about digital radio? How many come on this  
>internet enthusiastically saying, "Boy, I just finished a tough  
>QSO with XYZ...my ECS error correction had to work like heck,  
>but all the checksums balanced in the end".  
>  
>...

Gee... maybe that's why I've never been able to build up much interest in HF RTTY, AMTOR etc., even tho I've tried!! Good insight there...

Long live CW!

72, Larry W1HUE/7

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Paul Harden <pharden@aoc.nrao.edu>  
Subject: [2695] Re: Memberships  
Message-ID: <199508211921.NAA14210@zia.aoc.nrao.edu>

QRP clubs do NOT issue expiration notices. One must remember these QRP organizations are operated strictly by VOLUNTEERS. There is

enough work to impose on the volunteers without asking them to process expiration forms, never mind the printing costs of the forms and postage. This is why everyone gets such neat journals for \$10 or so a year.

Editors usually produce the journals based on the current level of membership; few extra copies are made. This is why late renewals that request back issues can not be honored. So please be mindful of these volunteer organizations and the "to the wire" funding and renew on time to your respective club(s) for uninterrupted service.

QRP clubs ... where past performance DOES guarantee future yields!

Paul NA5N

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Paul Harden <pharden@aoc.nrao.edu>  
Subject: [2676] Re: MFJ 9020 blues  
Message-ID: <199508211446.IAA18888@zia.aoc.nrao.edu>

John KC7CKP,  
There are very good alignment procedures in the back of the MFJ manual on the 9020 rig. There are a couple of procedures that require a frequency counter, for precisely setting the VFO frequency, but everything else is pretty straight forward. Only a screw driver and voltmeter.

1. Make sure your +10v regulator is right at +10v. If not, there is a pot for making it so. Below 10v, the receiver will sound sick; above 10.5v or so, you loose regulation during XMIT.
2. Back off on the AGC voltage. It is also an internal adjustment. Book says to adjust the AGC with no signal to +4v. That is way too hot and makes your sidetone real loud. It is ONLY the AGC gain -- you ain't gonna blow anything up by adjusting the AGC voltage. Adjust the AGC pot for a pleasing sounding sidetone. The AGC voltage will be over 5v when this happens.

Paul NA5N

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Rick Zabrodski <zabrodsk@med.ucalgary.ca>  
Subject: [2667] Re: NAQSO Party-qrp SSb  
Message-ID: <Pine.SUN.3.91.950820193623.9707D-100000@ume>



On Sun, 20 Aug 1995, Bob Hightower wrote:

> For what it's worth, I worked about an hour and a half of the NA QSO Party on  
> SSB with from 700-900 mW on the QRP+. Contacted 25 stations (only a very few of  
> those I answered by hunt and pounce didn't come back) in 14 states. Working  
> from central AZ to MD, NC, PA and points west was fun. Didn't hear anyone  
> else signing qrp, tho.

Did not particiapte in this one this time. These tend to be more of your  
hared core type contestors. No linears allowed so most of these guys  
think running less than 150 watts is qrp!

Dr. Rick Zabrodski BSc, MD, CCFP(E)	*	VE6GK
Email: zabrodsk@med.ucalgary.ca	*	NorCal 519 ARCI 7650 GQRP 8329
Phone 403-271-5123 Fax 403-225-1276	*	"Power is no substitute for skill"

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Mike Connor <mikec@primenet.com>  
Subject: [2700] Re: OHR SCAF  
Message-ID: <199508212007.NAA15184@mailhost.primenet.com>

Hi Adam,

According to my OHR catalog that I received last week, it shows a  
special summer price of \$64.95 for the SCF-1A filter.

Hope this helps...

Mike

NQ7K

At 03:10 PM 8/21/95 EDT, Adam O'Donnell wrote:

>Does anyone know how much the OHR SCAF costs? With the case?  
>I just got the Ramsey catalog today. I believe that they said that their  
>SCAF filter had a continously variable bandwidth and costs about 35 without  
>the case.

>

>73

>

>--

>Adam O'Donnell, N3RCS

>Amsat: N3RCS@AMSAT.ORG

>Internet: ADAM@LIBERTYNET.ORG

>

>"I want to know how God created this world. I am not interested in this or  
>that phenomenon. I want to know His thoughts, the rest are details."

>

> -- Albert Einstein  
>  
>  
>  
>  
>

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Bob Gobrick V01DRB/WA6ERB <bgobrick@terra.nlnet.nf.ca>  
Subject: [2698] Re: QRP Club Dues  
Message-ID: <Pine.OSF.3.91.950821170415.15153B-1000000@terra.nlnet.nf.ca>

Michael,

As you may note (except for the GQRP Club) most of the QRP groups are small volunteer organizations that don't always have money (stamp money) to send out renewal notices. So if you see on your mail label that your time is almost up jsut go ahead and renew. From my own experinece it is really hard to ask for forgivness later on when you finally pay your dues but then are missing a back issue - ughhh. You can just hope that a back issue is available.

Good luck 73/72 Bob V01DRB/WA6ERB

On Mon, 21 Aug 1995, Michael T. Weaver, RN  
Ph.D. wrote:

> I've noticed that my memberships in several QRP clubs (NORCAL, NEQRP, GQRP)  
> are due to expire in the next month.  
>  
> Since I haven't yet gone through a full year of membership, and don't want  
> to miss a newsletter issue, I was wondering if renewal notices are sent out by  
> these organizations (either separate or in the end-of-year newsletter) to  
> remind members to re-up, or if you just send in your renewal, unsolicited,  
> before expiration?  
>  
>  
> TIA & 72,  
>  
> Michael  
> KG8H  
>  
> -----  
> Michael T. Weaver, RN Ph.D.           Internet: nurs036@uabdpo.dpo.uab.edu  
> U. of Alabama at Birmingham       Bitnet : nurs036@uabdpo  
> School of Nursing                 Radio : kg8h

> 1701 University Blvd.                      QRP            : ARCI: 8576; G-QRP: 8616  
> Birmingham, AL 35294-1210                      : NORCAL: 933; QRP-NE: NE366  
> Phone: (205) 934-6913

> - - - - -  
>  
>

-----  
Bob Gobrick V01DRB/WA6ERB/VE2DRB Newfoundland, Canada

QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP

Internet:        bgobrick@terra.nlnet.nf.ca  
                 rgobrick@public.compuserve.nf.ca

Compuserve:     70466.1405@compuserve.com  
-----

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: N5EM@aol.com  
Subject: [2699] Re: QRP Club Dues  
Message-ID: <950821145128\_79732754@emout04.mail.aol.com>

Michael,

Generally, renewal notices are not sent out. These clubs rely on the date normally imprinted on your mailing label to inform you when it is time to renew. These small clubs just don't have the money to spend sending out renewal notices, not to mention the volunteer time needed to create and mail them.

72 from Houston.

Ed Manuel, N5EM  
n5em@aol.com  
QRP ARCI, G-QRP, CoQRP, NorCal (yes, I'm sending in NE-QRP this week!)

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: LVE1@inel.gov (Larry East)

Subject: [2678] RE: QRP+ SSB  
Message-ID: <9508211515.AA18346@garnet.inel.gov>

The other day AB50U wrote:

>Sorry for the bandwidth but would like to know other QRP+ owners  
>experiences with SSB. I bought the modified MFJ mic and plugged it in.  
>I do get about 1.5 to 2 watts out but shouldn't I be getting more? The  
>mic gain control seems to have little effect. As one listener said about  
>my signal "He's about 30db below mental telepathy!" Maybe I should stick  
>with CW!  
>

If you are useing an AVERAGE reading Wattmeter, then a reading of 2W average power would be about right for 5 to 6W PEP. The mic gain control has little effect beyond a certain point because the "ALC" circuit in the QRP+ attempts to keep the transmitter output from exceeding a set PEP level -- presumably 5W but it probably differs from rig to rig due to component tolarances. I will post more information on this subject when I get a chance to put it all together. Right now, gotta get back to work!

72, Larry W1HUE/7

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: ddonald@vikings.onecomm.com (Dave Donaldson)  
Subject: [2686] Re: QRPP to QRP

> From qrp-1@lehigh.edu Mon Aug 21 12:53:04 1995  
> Reply-To: rgobrick@public.compusult.nf.ca  
> Originator: qrp-1@lehigh.edu  
> Sender: qrp-1@lehigh.edu  
> From: rgobrick@public.compusult.nf.ca (Robert J. Gobrick)  
> To: Multiple recipients of list <qrp-1@lehigh.edu>  
> Subject: Re: 5 watt amp - QRPP to QRP  
> X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
> X-Comment: Low Power Amateur Radio Discussion  
> Date: Mon, 21 Aug 1995 13:41:11 EDT  
> Content-Length: 1922  
>  
> Brien,  
>  
> Anyway I agree with you - in my experience 5 watts makes a BIG difference in  
> my getting a QSO going vs 1-2 watts. I don't know why but I have better  
> chances at this power (no I don't want to extend my expodential thinking

> beyond this).  
>

Its a matter of math that gives you the increase performance.

For example, say the noise floor is at -110dbm. The received signal is 3db more each time the transmit power is doubled. That means you have a 12db more signal with power increase from 1 watt to 6 watts. To get the same power increase beginning at 100 watts you would have to go to 800 watts. Going in the reverse, beginning at 100 milliwatts, the same applies. So the difference between say 100 mw and about 5 watts is +24db. With noise floor at -110dbm we now are received at -86dbm. "Full quieting" as they say in FM.

When I first started in cellular we ran 250 watts from the cell sites. When we had to reduce to 100 watts erp I was afraid that we would loose alot of coverage, having forgot this very concept. Now that I am designing to 50 watts erp I have found that coverage is effected very little. Power is only one aspect to the RF link budget, one must look at all the losses. But I prefer to call CQ and find out the fun way.....

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: kellner@usa.acsys.com (Richard G. Kellner)  
Subject: [2668] Re: Ramsey Amps?  
Message-ID: <9508202101.AA14516@usa.acsys.com>

Thanks for the suggestions, Daniel. You wouldn't happen to have the layout in a form you could send to me, would you? Did you change the input and output transformers at all, or were they OK? Thanks again and 73,  
de Rich W5RXP

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.po.my>  
Subject: [2669] Re: Ramsey Amps?  
Message-ID: <3035377e.pandora@pandora.lugs.po.my>

On Sun, 20 Aug 95 15:01:37 MDT, "Richard G. Kellner" <kellner@usa.acsys.com> wrote:

> Thanks for the suggestions, Daniel. You wouldn't happen to have the  
> layout in a form you could send to me, would you? Did you change

What format do you want the layout in? The mounting is slightly different for the MTP3055E's as part of my design was to allow attachment to a much larger heatsink. I used a shareware PCB designer to do the job so I can send

that PCB file to you (Protel's format). Only think is that I do not know if the component layout will be clear due to the rather compact component placement. I also change some resistor types to 1/2 watt from 1/4 (the low value resistors) because some had burnt out earlier. The biasing really needs looking into however.

> the input and output transformers at all, or were they OK? Thanks

I tried a design with the original transformers which were mostly okay but it seemed to overheat quite badly so I change the output transformer to a shorter but bulkier one. This one is square in shape so it looks nicer on the PCB. I was trying to make the whole thing small enough to put into one of my existing rigs but the heat made the whole thing quite difficult to do.

> again and 73,  
> de Rich W5RXP

Let me know what you need and I'll see what I can do about it.

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.po.my  
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: JessQRP@aol.com  
Subject: [2665] Re: SW30 and QRO  
Message-ID: <950820203746\_79179248@mail04.mail.aol.com>

Burnt the zener did ya?

I did the same thing. QRO 80 meter power into my inverted L near the half square that was plugged into the SWL 30. Took out the zener and the transisitor that controls the mute circuit for the sidetone and shorted the power line. I would strongly recommend a FAST blow 1 amp fuse in line. I was still debugging my SWL 30 and had not mounted the fuse holder. You can bet that the fuse holder will be the first thing in the next rig I build.  
Been there, done that

Best  
Jess

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Goran Hosinsky <hosinsky@royac.iac.es>  
Subject: [2671] Re: SW30 and QR0  
Message-ID: <9508211113.AA04263@royac8.royac.iac.es>

Yes, the fuse (500mA fast) saved the day. First thing I connected, the fuse and the 15V zeener across to guard against wrong polarity and wrong voltage, when bread boarding the SW30 setup. This after the warnings I have seen here on the list.

73 Goran

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: Bill Acito 21-Aug-1995 1203 <acito@asdg.ENET.dec.com>  
Subject: [2681] RE: The Amateur's Code - Or lack there of..  
Message-ID: <9508211602.AA24752@us1rmc.bb.dec.com>

Maybe the keying pattern was so bad, they thought you were tuning up on them.

b

. . . . . - I own my own words - . . . . .

Bill Acito |d|i|g|i|t|a|l|  
acito@asdg.enet.dec.com  
Digital Equipment Corporation, Hudson, MA

kc1gs  
qrp-ne 260  
norcal 1147  
arrl life

From qrp-1@lehigh.edu Mon Aug 21 19:37:00 1995  
From: "John F. Woods" <jfw@jfwhome.funhouse.com>  
Subject: [2683] Re: The Amateur's Code - Or lack there of..  
Message-ID: <199508211657.MAA00916@jfwhome.funhouse.com>

> IF YOU heard a strange sounding signal answering your CQ what would you

> do ? Both hams with the filth comments had nice fists (abt 15 wpm),  
> clean signals, but their heads were not screwed on stright.

I think I'd come back with "?" at least the first time; if it sounded like random garbage I might suspect deliberate QRM, and \*might\* (if I were in a bad mood) reply with "LID" before moving, but \*nothing\* justifies the use of obscenities on the air.[1] The fact that you appeared to be putting out a clean signal that had nothing whatsoever to do with what you thought you were sending, thanks to the bad keying transistor, may have led them to believe you were deliberately QRMing them, but still.

I think they were closet anti-coders trying to provide covert counterexamples to the inevitable "you don't hear the kind of filth on CW that you do on SSB" that crops up in pro-code/anti-code "debates"...

[1] And anyone who thinks I am just an old prude can go read talk.bizarre for a sampling of my command of obscenities where they \*are\* accepted... ;-)  
When they are \*not\* accepted, though, they are not accepted.